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ABSTRACT OF THE DISCLOSURE

A glucose meter includes means for processing a blood sample to provide a glucose measurement and a communication interface to send and receive data including the glucose measurement to a remote processing center. The processing center collects and processes a plurality of glucose measurements to provide a modified method for processing a blood sample in order to provide an adjusted glucose measurement. In one embodiment, the modified blood sample processing method is a function of a permissible glucose deviation for the patient and in another embodiment, the modified blood sample processing method is a function an aging factor indicative of test strip variations over time.